

(19) World Intellectual Property
Organization
International Bureau



551 394

(43) International Publication Date
14 October 2004 (14.10.2004)

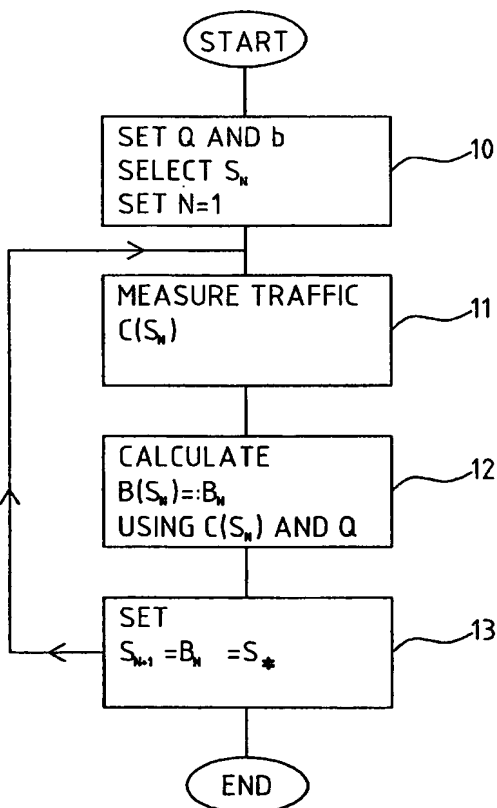
PCT

(10) International Publication Number
WO 2004/088937 A1

- (51) International Patent Classification⁷: **H04L 12/56, H04Q 11/04**
- (21) International Application Number: **PCT/IE2004/000051**
- (22) International Filing Date: **31 March 2004 (31.03.2004)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
S2003/0235 31 March 2003 (31.03.2003) IE
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,**

[Continued on next page]

(54) Title: **A METHOD AND SYSTEM FOR QUALITY OF SERVICE OPTIMISATION IN A DATA NETWORK**



(57) Abstract: The present invention provides a method and system for estimating the optimum service rate or bandwidth requirement (BWR) for a switch or router in a communications network for a particular traffic flow which contains elastic traffic, i.e. traffic subject to a feedback mechanism. The invention provides an iterative technique to estimate the optimum service rate from calculated BWRs for the particular traffic flow without initially knowing the precise form of the BWR for various service rates at a buffer of a switch. This is done by initially configuring a service capacity, calculating the BWR to configure a new service capacity and repeating this until the calculated BWR and configured service capacity coincide.

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PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

- (84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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